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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/719,199 | 11/21/2003 | John E. Campbell | 00-RB69(1) | 1984 |

7590 07/05/2005

SMITH INTERNATIONAL, INC.
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EXAMINER

THOMPSON, KENNETH L

ART UNIT PAPER NUMBER

3672

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|--------------------------------------|--|--|
| Office Action Summary | Application No. 10/719,199 | Applicant(s) CAMPBELL ET AL. | |
| | Examiner Kenneth Thompson | Art Unit 3672 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 7-11, 13-19, 22-26 and 28-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Hebert et al., U.S. 10,719,199.

Regarding claims 1 and 16, Hebert et al. discloses a mandrel or body (9) including a plurality of angled channels (18,19) formed into a wall and a plurality of moveable slips (22) having a cavity (inner curvature of slips 22) engaging the mandrel or body and translating along the channels between a collapsed position (fig 2) and an expanded position (fig 4).

As to claims 2 and 17, Hebert et al. discloses a plurality of extensions (26) corresponding to and engaging the channels.

As to claims 3 and 18, Hebert et al. discloses a drive mechanism (44).

As to claims 4 and 19, Hebert et al. discloses the extensions (26) and channels (18,19) support loading (pressed against the inner bore) on the plurality of slips in the expanded position.

As to claims 7 and 22, Hebert et al. discloses the plurality of slips (22) includes angled surfaces (26) for collapsing the slips into said body.

As to claims 8 and 23, Hebert et al. discloses an axial flow bore (37).

As to claims 9 and 24, Hebert et al. discloses a piston (41) translating the slips.

As to claims 10, 11, 25 and 26, Hebert et al. discloses the slips (22) grippingly engage (via 24,23) the wellbore.

As to claims 13 and 28, Hebert et al. discloses a plurality of threads (23,24) radially and axially aligned to resist axial and torsional forces for grippingly engaging the wellbore in the expanded position (col. 5, lines 13-21).

As to claim 14, 15, 29 and 30, Hebert et al. discloses locking and releasing means (54) preventing and allowing slip movement from expanded position to collapsed position.

Claims 1, 5, 6, 20 and 21 rejected under 35 U.S.C. 102(b) as being anticipated by Link, U.S. 3,397,746.

Regarding claim 1, Link discloses a body (6,12) including a plurality of angled channels (within 12, fig 5) formed into a wall and a plurality of moveable slips (11) having a cavity (inner curvature of slips 11 at outer circumference of 12) engaging the mandrel or body and translating along the channels between a collapsed position and an expanded position (col. 2, lines 8-14).

As to claims 5, 6, 20 and 21, Link discloses in figure 5 two pair of slips offset ninety degrees.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 12 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hebert et al., U.S. 5,878,818 in view of Roberts, U.S. 6,164,377.

As to claims 12 and 27, Hebert et al. discloses the slips (22) having gripping engaging means (23,24). Herbert does not disclose the slips having carbide inserts. Roberts teaches use of slips having carbide inserts (28) to dig into and the inner wall of the casing. It would have been obvious to one having ordinary skill in the art at the time of the invention to arrange for the gripping surfaces disclosed by Hebert et al to have carbide inserts, as taught by Roberts to more firmly adhere the slips to the casing.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Thompson whose telephone number is 571 272-7037. The examiner can normally be reached on 7:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/719,199

Page 5

Art Unit: 3672

26 June 2005

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